

SEQUENCE LISTING

<110> METAMORPHIX, INC.
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<120> COMPOSITIONS AND METHODS FOR DETERMINING CANINE GENDER

<130> MMI1130-1

<150> US 60/439,188

<151> 2003-01-10

<160> 99

<170> PatentIn version 3.1

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<213> Artificial sequence

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 <212> DNA
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 ttaagggttt aagacagtac aagatc 146

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aaattagggg ttaaaacagt atgagatc 148

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<212> DNA

<213> Homo sapiens Y

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<213> Canis familiaris X consensus

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tggtaaactt tagggtttaa gacagtacia gatcagatgt cctcaaatgt ctctgtgttt 180

aagaaacact tggaagagct tggtataaaa aaaaatatat tcccagatgc ctccacccaa 240

gactgattca gtagagcagg agtgggggga gtgcccagga ctctgcattt taacaagcac 300

ctcaggagat tctgtggaga caattaactt gtaaatatca tgcgccatct ctagatggag 360

gaaactttta gaagggacct ttgaaaggcc tccagagaaa gtgctcgaac agcttaggca 420

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tctgcctc ca 492

<210> 23

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<212> DNA

<213> Canis familiaris Y consensus

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tagggttaaa ttttaagggt taagacagta caagatctga tggtcacaaa tgtgactgtg 180

tttaagaac attttttaaaa tcttgatcac aagattttta aacaaaaaca ttctcagttg 240

ccttcacca tattctgatt cagtatagcc agagtggggg gtgtgctgag aactctgaat 300

tttaacaagc aagaacctca ggaaattctt ggaaacaatt acttataatc actcatctct 360

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ctctttctgc tcagaaaacc cccgggctat cattcttcag agtaagattt cagtgttagg      540
aatttccttc ctgaactatt tatttgtcag tcacctgcta agcagatgac ttcctattgg      600
ttgtccagaa tgcattgtggg tatagtttac attcaaattg accaagggat aggggaatgt      660
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<210> 24
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<210> 26
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<210> 27
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Met Pro

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Met Pro

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 gacatattgt attagattca ggtgtacagc atagtgattc aggtgtacag catagtgatt 180
 caacaattaa atgcacttca acattaaaaa atgcctcacc atgttaagtg tagttacat 240
 ctgtcaccat ac 252

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 gtgtgcaaat aaaagtaaaa ttataaagca tgctatcttg tttccacag cattttctaaa 120
 ttttatttat ttatttat ttatttat ttatttat ttatttat ttatttat ttatttat 180
 aatgacaatg ttgtatacag tgaaacctct cattaatttg aaaaacagca aaga 234

<210> 34
 <211> 279
 <212> DNA
 <213> Canis familiaris

<400> 34
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 agcactgggt gttatactat atgttggaac atcgaacttc aataaaaaaa agaagaaaga 120
 aagaagaaag aaggaaagag aaagaaaaag aaagaaagaa agaaagaaag aaagaaagaa 180
 agaaagaaag aaagaaagaa agaaaacctt tcaaacttct agtttgacaa tgcaattgtg 240
 tattaggaaa gggagttgca atatatagac ctctccaga 279

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 <212> DNA
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 <223> n is any nucleotide

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 gtgccatttg agggcagccc tgggtggctca gtggtttagc gctgcctaca gcctagggcg 180

tgatcctgga gacctgggat tgagtccac gtcgggctcc ctgcatggag cctgcttctc	240
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aaataaataa ataaatctta aaaaaaaaaat agaagtgccca tttgatgtct tcatctattg	360
atgactcaat caagtttatt atctacttca agttgctcta gctgaaatca agagtcggga	420
cgctcaacca agtgagccct ccagggtaccc cacaaatggt gatagttcaa acttt	475

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aatatgaagg taaacatatc gactttatca ctgtgggagg ctaaattgga ggtgtacttt	180
gtctttctcc tttctttctt tctttctttc tttctttctt tctttctttc tttctttctt	240
ttgctttttg ttagattgtg tttatttatt tgagagaaag agagtggagg gaggggcaga	300
ctgagaggga gaagtagact ccatggtgag cagggagcct gatgagacat gaggctccat	360
cccaggaccc tgggaccata acctgagcta ttttctctga acaaaggcac tgctgaggta	420
gttcaag	427

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tttttccaaa acgaaagaaa gaaaaaaaaa gacccaaaaa agaaaaaaag aaaagaaaaa	180
gaaagaaaga aagaaagaaa gaaagaaaga aagaaagaaa gaaagaaaga aagaaaaaga	240
aagaaagaaa gaaagaaaga aagaaagaaa gaaagaaaga aagaaagaaa gaaagaaaga	300
aagaaaagtg aattagaact catctatctt tgttaacttt cctcattggt ggataactgt	360
accggtgtta ttttaaggaaa tactattgaa gtatgccggg gaacaggacc atgatgtcta	420
ccacttattc tcaagtgggt tggagaaaaa gaat	454

<210> 38
 <211> 394
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<213> Canis familiaris

<400> 38

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ttggatgaat ggatggagaa gaaacttatt ttatatgatt ttaaaagtggt aggattatgg      180
gaatatacac atatacactt tgtgtgcatt tcagtgtttt taaaacatta aaatttttct      240
ttttttcttt tcttttcttt tctctctctc tttctttctt tctttctttc tttctttctt      300
tctttctttc tttctttctt tctttctttc tttctttctt tctttctttt gcttgtcttg      360
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<211> 344

<212> DNA

<213> Canis familiaris

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<221> misc_feature

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<223> n is any nucleotide

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actctagaca gaagagatta tccacaaatt gatacaattt gggatataag attggnagaa      180
ggtttcctat aagaacaata ctagaaaata ttaatatatt taaggaattc aaagggaaag      240
tttctaacaa gcaattgaac acaggttatg gtaacacatg ctggtaattt gtaaatttga      300
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ctatatatct cattttctag tccccagtct agttcactgc ccgcctgacc aacatccacc      120
agtgatagtg aaaaattaaa gaaaaacctg nncaaataaa taaataaata aataaatgaa      180
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tgaatgaaaa aaagaaagaa agaaagaaag aaagaaagaa agaaagaaag aaagaaagaa 240
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 gggggagggcc tntctgtgat atgaaaataa ctga 334

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 <223> n is any nucleotide

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 aaaatttctc tctaggattt tcccctacca gtttggtggt taattcctgg gagaggagca 180
 cattcccgtc tagnagcaca ttctag 206

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 <212> DNA
 <213> Canis familiaris

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 agattctctc ttctctccc tctcctctc ccttggtgtc tctctttctt gaatgaatga 360
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 aagggaaga atttttatat catagggttc ctagaacagg 460

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 aaccggttgt gattttctggg ccaaattatc caaaaataaa taaataaata aataaataaa 180
 taaataaata aataaataaa agatgtcact aatgacacag aaatggagga taagactttc 240
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 gtgaagtgta taatgatatg taaccantcg gagca 335

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 <212> DNA
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<400> 44
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 ggaagaaagg aagaaagaaa gaaaggaaga aagaaagagt gtgccaaact gccctgatgt 180
 cagtagnatc agtctacatg aagtaatgac ccgaactgaa accctaaacc catatgggcta 240
 gtagaatatc tgtggttaat aatgtttatg taatccaaat aaagttaatg ggtttttagga 300
 cgattcccag ggtagttaa ggncaangag aattaatttg ggatntga 348

<210> 46
 <211> 497
 <212> DNA
 <213> Canis familiaris

<400> 46
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 caatgaggaa cttgccttct gcagaaggct ggaatcctgt ttaataattt gtgtttaaga 120
 aggcatcaaa ttagagaatg tattttatta aaacgcacat gaaaatagtc actccaaaaa 180
 agattagtgc tgaaggagat atatcaacat tttacttttg ttcccacagc tcaggttgtg 240
 atctcagact catgatatca agaccacat caggctcttt gctcagtgtc aagtctcttt 300
 aagtttctct ttcctctgc tctcccccac gtgcatactc tctctactgt cttgctctct 360
 ctcaaataaa taaataaata aataaataaa taaataaata aataaatcta tctttaaaaa 420
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 atcaatgaca agccttt 497

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<400> 47
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 tgttatttgt ttttatttat ttatttat ttatttat ttatttat ttatttat 180
 ttattttgat attatttggt aaataaagaa gttagggtcat gtggtctgta gatctcccca 240
 ttctggatcc a 251

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 <221> misc_feature
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 <223> n is any nucleotide

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 aaaaaagaaa gaaagaaaaa gaagaaagaa agaaagaaag aaagaaagaa agaaagaaag 180
 aaagaaagaa gaaagataaa atggntttgc caatcagaaa atnttttgct cagcagaana 240

taaagaaaaa gagagtcata gaggnaagca ttgncgaggt gcaactgntta gagaatgcct 300
 aggnctgag ccacacccta ccaggaccta gangctccac ccnggnaggt 350

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 <212> DNA
 <213> Canis familiaris
 <220>
 <221> misc_feature
 <222> (4)..(4)
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<400> 49
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 agaaagaaag aaagaaagaa agaaagaaag aaagaaagaa gaaagaaaga aagagaaaaa 180
 gaaaaagaaa aagaaaaaga aaaagaaaaa gaaaagaaaa agaaaaaaaag attcgaggag 240
 agattaatga cttagaacac agaaaataga ataaataaat ctggaagctt ctgtttcttt 300
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<210> 50
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<400> 50
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 ctccctctga aagaaagaaa gaaagaaaga aagaaagaaa gaaagaaaga aagaaagaaa 180
 gaaagaaaga aagaaaaaag agtaagtata gacctagaaa acgagattcc tattccactt 240
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<210> 51
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 <212> DNA
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 <222> (61)..(292)
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 ttatTTTTTT tatatTTTaa aatattgcaa taaatattac ttgtttactg aggtgtcttt 180
 ttttattggt gttgttggtg ttgttggtgt tgttggtgtt gttgtntga catcgctcc 240
 aaaacgaaga cttcacttgc ttcattctaa ttctgggtn gtgatatttg gnccccagat 300
 taaatttaaa aatgctgaat aaatttctaa atcacagccc ttgaatatga acaatgacac 360
 tgtatcaagg gaaggaagga aggaaggaag gaaggaagga aggaaggaag gaaggaagga 420
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24